



# Course Information

**Further Education and Training Certificate: Welding  
Application and Practice (Learning Programme ID 58536):**

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# National Certificate: Welding Application and Practice

SAQA ID	57886
Level	4
Credits	158
Duration	1 year

The purpose of this Qualification is to provide learners, education and training providers and employers with the standards and the range of learning required to work effectively in the welding industry and to meet the challenges of such an environment.

This Qualification is the last of a progression, which culminates in the use of a range of complex welding methods. The purpose of this Qualification is to develop learners who, after completion, demonstrate the ability to:  
Use and apply a variety of plate and pipe welding processes according to performance standards. Participate in self-directed activity, by complying with welding procedures and maintaining business objectives. Demonstrate leadership through effective interaction and communication with clients, peers and members of supervisory and management levels.  
> Range: Leadership (individual and team); problem solving; technical report writing; exploring options for further learning.

## Course Expectation

This is a learnership, and therefore has a theory and workplace component.

- Learners are expected to complete the theory at the training provider.
- The workplace component must be complete at a recognised workplace.
- The activities at the workplace will be determined by the workplace tasks that need to be completed.

Training Provider

Workplace

## Selection of Workplace

Learners are required to ensure that they have secured a workplace. Whilst IQ supports learners in this endeavour, it is the learners responsibility.

The workplace selected must be in line with the course undertaken.

Learners will be provided with a pack that includes:

- Letter of request for placement
- Placement guidelines for Employer organisations

# Training



## Your course comprises of the following:

- Complete Learner orientation on the programme expectations.
- Mentor guidelines for the workplace mentors.
- Work integrated guidelines for the workplace.
- Learner orientation guide.
- Process meetings map with employers and mentors.
- Training plan including the schedule of assessments
- Process map for the qualification.
- Learner guides, workbooks and log books
- E-learning lessons/ PC Tablet (with audio voice lessons)
- Training videos to support lessons showing practical applications

## Assessment

Assessments are an important part of your learning as it serves as a measure to identify if you have achieved the competencies required in this course.

Various assessment methods are used during the course of your programme. All these are collated into a Portfolio of Evidence which is used for the final summative assessment. Each module of your study will have an assessment of some form.

The workplace is assessed through a logbook. This comprises a list of tasks which needs to be completed and signed off by your workplace mentor.

## Delivery Modality

The delivery modality is flexible and designed according to the needs of the client.

The following are some of the options:

### Option 1

- Lessons are presented on a PC Tablet. These are recorded.
- All the learner guides and workbooks are on the PC Tablet.

### Option 2

- E-learning. Lessons are on the e-learning platform and learners progress through them.

### Option 3

Face to face tuition according to a training plan.

Company inductions

Better tracking

Convenience

Learner control

Use of dead time

Suits: learning styles

Social learning

Easy evidence

Learner confidence

**Institute for Quality**  
**Mobile Learning for the**  
**workplace. Are you ready?**

## Programme Modules

	<b>ID</b>	<b>UNIT STANDARD TITLE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Core	<a href="#">243049</a>	Weld carbon steel pipe using the cored-wire welding process in all positions	NQF Level 04	10
Core	<a href="#">243054</a>	Weld carbon steel pipe, using the gas tungsten arc welding process in all positions	NQF Level 04	20
Core	<a href="#">243062</a>	Weld carbon steel pipe, using the shielded metal arc welding process in all positions	NQF Level 04	20
Core	<a href="#">243059</a>	Weld workpieces in the stainless steel material group, using the gas metal arc welding process in all positions	NQF Level 04	10
Core	<a href="#">243089</a>	Weld workpieces within the aluminium material group, using the gas metal arc welding process in all positions	NQF Level 04	10
Core	<a href="#">243079</a>	Weld workpieces within the aluminium material group, using the gas tungsten arc welding process in all positions.	NQF Level 04	10
Core	<a href="#">243057</a>	Weld workpieces within the stainless steel material group, using the gas tungsten arc welding process in all positions	NQF Level 04	10
Fundamental	<a href="#">119472</a>	Accommodate audience and context needs in oral/signed communication	NQF Level 03	5
Fundamental	<a href="#">119458</a>	Analyse and respond to a variety of literary texts	NQF Level 03	5
Fundamental	<a href="#">119466</a>	Interpret a variety of literary texts	NQF Level 03	5
Fundamental	<a href="#">119457</a>	Interpret and use information from texts	NQF Level 03	5
Fundamental	<a href="#">9015</a>	Apply knowledge of statistics and probability to critically interrogate and effectively communicate findings on life related problems	NQF Level 04	6
Fundamental	<a href="#">119462</a>	Engage in sustained oral/signed communication and evaluate spoken/signed texts	NQF Level 04	5
Fundamental	<a href="#">119469</a>	Read/view, analyse and respond to a variety of texts	NQF Level 04	5
Fundamental	<a href="#">9016</a>	Represent analyse and calculate shape and motion in 2-and 3-dimensional space in different contexts	NQF Level 04	4
Fundamental	<a href="#">119471</a>	Use language and communication in occupational learning programmes	NQF Level 04	5
Fundamental	<a href="#">7468</a>	Use mathematics to investigate and monitor the financial aspects of personal, business, national and international issues	NQF Level 04	6
Fundamental	<a href="#">119459</a>	Write/present/sign for a wide range of contexts	NQF Level 04	5
Elective	<a href="#">13254</a>	Contribute to the implementation and maintenance of business processes	NQF Level 04	10
Elective	<a href="#">14698</a>	Cut materials using plasma cutting	NQF Level 04	4
Elective	<a href="#">114194</a>	Demonstrate understanding of regulations codes and drawing office practices for structural steel detailing	NQF Level 04	7
Elective	<a href="#">14473</a>	Develop and produce computer aided drawings	NQF Level 04	4
Elective	<a href="#">14497</a>	Identify, interpret and produce working structural steel drawings	NQF Level 04	8
Elective	<a href="#">243070</a>	Programme, use and maintain an industrial robot system	NQF Level 04	10
Elective	<a href="#">10981</a>	Supervise work unit to achieve work unit objectives (individuals and teams)	NQF Level 04	12
Elective	<a href="#">243065</a>	Weld carbon steel pipe using the gas metal arc welding process in all positions	NQF Level 04	20

Elective	<a href="#">243088</a>	Weld carbon steel pipe, with combination welding processes using the gas tungsten arc welding and gas metal arc welding, in all positions	NQF Level 04	8
Elective	<a href="#">243085</a>	Weld carbon steel workpieces, using the shielded metal arc and gas tungsten arc combination welding processes, in all positions	NQF Level 04	8
Elective	<a href="#">14721</a>	Weld pipe with oxy-acetylene gas process	NQF Level 04	20
Elective	<a href="#">243083</a>	Weld pipe within the aluminium material group, using the gas metal arc welding process in all positions	NQF Level 04	20
Elective	<a href="#">243087</a>	Weld pipe within the aluminium material group, using the gas tungsten arc welding process in all positions	NQF Level 04	20
Elective	<a href="#">243060</a>	Weld pipe within the stainless steel material group, using the gas metal arc welding process in all positions	NQF Level 04	20
Elective	<a href="#">243050</a>	Weld pipe within the stainless steel material group, using the gas tungsten arc welding process in all positions	NQF Level 04	20
Elective	<a href="#">243051</a>	Weld steel workpieces, using the plasma arc welding process in all positions	NQF Level 04	20

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